ThinkPad X270 Platform Specifications

Processor

6th Generation Intel® Core™ i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-6006U	2	4	2.0 GHz	-	3MB	DDR4-2133	Intel HD Graphics 520
i3-6100U			2.3 GHz	-	3MB		
i5-6200U			2.3 GHz	2.8 GHz	3MB		
i5-6300U			2.4 GHz	3.0 GHz	3MB		
i7-6500U			2.5 GHz	3.1 GHz	4MB		
i7-6600U			2.6 GHz	3.4 GHz	4MB		

or 7th Generation Intel Core i3 / i5 / i7 Processor

Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics
i3-7100U	2	4	2.4 GHz	-	3MB	DDR4-2133	Intel HD Graphics 620
i5-7200U			2.5 GHz	3.1 GHz	3MB		
i5-7300U			2.6 GHz	3.5 GHz	3MB		
i7-7500U			2.7 GHz	3.5 GHz	4MB		
i7-7600U			2.8 GHz	3.9 GHz	4MB		

Graphics
Intel HD Graphics 520 or 620 in processor;
supports external digital monitor via HDMI or USB Type-C;
supports three independent displays;
Max resolution: 4096x2160@60Hz (USB Type-C); 4096x2160@24Hz (HDMI)

Chipset
Intel SoC (System on Chip) platform

Memory
16GB max / 2400MHz DDR4, one DDR4 SO-DIMM socket
* System clocks down for processors with lower memory controller

Display
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight,
   220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Some: 12.5" (317.5mm) HD (1366x768), anti-glare, LED backlight, IPS,
   300 nits, 16:9 aspect ratio, 800:1 contrast ratio, 170° viewing angle
Some: 12.5" (317.5mm) FHD (1920x1080), anti-glare, LED backlight, IPS,
   300 nits, 16:9 aspect ratio, 700:1 contrast ratio, 170° viewing angle

Multi-touch *(opt)*
On-cell touch, supports 10-finger gesture (FHD only)

Storage
System has one HDD slot or one M.2 2280 slot exclusively for storage
Some: HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high (e.g. xxxGB SSD)
Some: M.2 SSD / PCIe NVMe, PCIe 3.0 x 2, 16Gb/s
Some: 128GB M.2 SSD / SATA 6.0Gb/s, in WWAN slot as 2nd Storage,
   mutually exclusive with WWAN and WiGig

Optical
None

Ethernet
Non-vPro model: Intel Ethernet Connection I219-V (Jacksonville)
vPro model: Intel Ethernet Connection I219-LM (Jacksonville)

WLAN *(optional)*
One of the following, configurable by model (WiGig is mutually exclusive with WWAN):
• Realtek® RTL8822BE, Wi-Fi 2x2 802.11ac + BT4.1
• Intel Dual Band Wireless-AC 8260, Wi-Fi 2x2 802.11ac + BT4.1
• Intel Dual Band Wireless-AC 8265, Wi-Fi 2x2 802.11ac + BT4.1
• Intel Tri-Band Wireless-AC 18265, WiGig 802.11ad + Wi-Fi 2x2 802.11ac + BT4.1
   (US only)

Bluetooth™ *(opt)*
Bluetooth 4.1 wireless, integrated in Wi-Fi + Bluetooth combo adapter
* Intel 8265ac / 18265ac card support BT4.2 but is limited to BT4.1 by Windows OS

WWAN *(optional)*
One of the following, configurable by model (mutually exclusive with WiGig):
• Wireless WAN upgradable
• Integrated Mobile Broadband 4G LTE-A,
   Qualcomm® Snapdragon™ X7 LTE-A (Sierra Wireless EM7455)
• Integrated Mobile Broadband 4G LTE,
   Intel XMM™ 7160 (Fibocom L831-EAU) (EMEA only)

SIM card *(opt)*
Micro-SIM card slot, opt Verizon LTE (US) or Lenovo® Connect (EMEA) SIM card

Dimensions
WxDxH: 12.03" x 8.21" x 0.80"; 305.5mm x 208.5mm x 20.3mm

Weight

Models	No + 3-cell	3-cell + 3-cell	3 + 6-cell
Weight	2.79 lb / 1.27 kg	2.98 lb / 1.36 kg	3.33 lb / 1.52 kg

Case color
Black

Case material
Display cover: Glass-Fiber Reinforced Plastic;
Bottom: Glass-Fiber Reinforced Plastic

Smart card reader
Optional: Smart card reader

Media reader
4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports
Two USB 3.1 Gen 1 (USB 3.0, one Always On),
USB 3.1 Type-C Gen 1 (with the function of Power Delivery and DisplayPort),
HDMI 1.4b, Ethernet (RJ-45), Dock connector
* Depending on many factors, actual data transfer speed may be lower than theoretical speed

WiGig dock *(opt)*
ThinkPad WiGig dock, mutually exclusive with WWAN (US only)

Monitor cable *(optional)*
HDMI to VGA: Lenovo HDMI to VGA Monitor Adapter
USB-C to VGA: Lenovo USB-C to VGA Adapter
USB-C to DP: Lenovo USB-C to DisplayPort Adapter

Camera *(optional)*
HD720p resolution, fixed focus

Audio support
HD Audio, Realtek ALC3268 codec / stereo speakers, 1.5W x 2 /
optional dual array microphone, combo audio/microphone jack

Keyboard
6-row, spill-resistant, multimedia Fn keys, optional LED backlight

UltraNav™
TrackPoint® pointing device and buttonless Mylar surface multi-touch touchpad

Security
Power-on password, hard disk password, supervisor password, security keyhole

Security chip
Discrete TPM 1.2 or TPM 2.0, TCG Certified (may be disabled in some region)

vPro *(optional)*
Intel vPro Technology

Fingerprint reader
Optional: Touch style match on chip fingerprint reader on the palm rest

NFC *(optional)*
Near Field Communication

Internal battery
Optional: Integrated Li-ion or Li-Polymer 3-cell *(23Wh)*

External battery
Li-ion 3-cell *(23Wh)* or 6-cell *(48Wh or 72Wh)*

Max battery life *(MobileMark® 2014)*

Models	No + 3-cell	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
Max battery life	6.52 hr	13.04 hr	20.1 hr	26.9 hr

* Battery life varies significantly with settings, usage, & other factors

AC adapter
• 45W USB-C AC adapter
• 45W slim tip AC adapter
• 65W USB-C AC adapter
• 65W slim tip AC adapter

Operating system
One of the following, configurable by model:
• Windows® 7 Professional 64 preinstalled
   through downgrade rights in Windows 10 Pro 64
• Windows 10 Home 64
• Windows 10 Pro 64

Limited warranty
One of the following, configurable by model:
• 1-year depot repair service
• 1-year depot with 2-year system board repair service
• 1-year/3-yr battery depot repair service
• 1-year limited onsite service
• 3-year/1-yr battery depot repair service
• 3-year/3-yr battery depot repair service
• 3-year/1-yr battery limited onsite service
• 3-year/3-yr battery limited onsite service

Mil-Spec test
MIL-STD-810G military testing

Environment
EPEAT™ Gold (US only); ENERGY STAR® 6.1; RoHS-compliant